Beam Power Tube

9-PIN MINIATURE TYPE

GENERAL DATA

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	Electrical:		
•	Heater, for Unipotential Cathode: Voltage (AC or DC)	volts amp	
	(Approx.):a Grid No.1 to plate 0.2 Grid No.1 to cathode & grid No.3,	μμf	
	grid No.2, and heater	μμξ	
	grid No.2, and heater 8	$\mu\mu$ f	
	Mechanical:		
	Operating Position	:-1/2" 3/32" 3.875" 6-1/2 E9-1)	
	Pin 1-Grid No.2 Pin 2-Cathode, Grid No.3 Pin 3-Grid No.1 Pin 4-Heater Pin 5-Heater Pin 6-Grid No.1	on-	
-	AMPLIFIER Class A;		
·			
_	GRID-No.2 (SCREEN-GRID) VOLTAGE	volts volts watts watts volts	
	Typical Operation and Characteristics:		
,	Plate Supply Voltage	volts volts volts ohms	

6DB5

Peak AF Grid-No.1 Voltage. 7.5 8.5 volt Zero-Signal Plate Current. 49 46 m MaxSignal Plate Current. 50 47 m Zero-Signal Grid-No.2 Current. 4 2.2 m MaxSignal Grid-No.2 Current. 10 8.5 m Plate Resistance (Approx.) 13000 28000 ohm Transconductance 8000 8000 μmho Load Resistance. 2000 4000 ohm Total Harmonic Distortion. 10 10 MaxSignal Power Output 2.1 3.8 watt	a a a s s s s s
Maximum Circuit Values:	
Grid-No.1-Circuit Resistance: For fixed-bias operation 0.1 max. megohi For cathode-bias operation 2.2 max. megohim	
VERTICAL-DEFLECTION AMPLIFIER	
Maximum Ratings, Design-Center Values Except as Noted:	
For operation in a 525-line, 30-frame system ^c	
DC PLATE VOLTAGE 300 max. volt	s
PEAK POSITIVE—PULSE PLATE VOLTAGE	_
(Absolute maximum) d	
PEAK NEGATIVE—PULSE GRID—No.1 (CONTROL—GRID) VOLTAGE 250 max. volt: CATHODE CURRENT:	
Peak 200 max. m	
Average	
	_
PEAK HEATER—CATHODE VOLTAGE: Heater negative with	
respect to cathode 200 max. volt: Heater positive with	5
respect to cathode 200 max. volts	5
Maximum Circuit Values:	
Grid-No.1-Circuit Resistance:	
For fixed-bias operation 0.1 max. megohr	n
For cathode-bias operation 2.2 max. megohm	5
 a Without external shield. b The dc component must not exceed 100 volts. c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission. d This rating is applicable where the duration of the voltage pulse doe not exceed 15 per cent of one vertical scanning cycle. In a 525-line 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds. e Under no circumstances should this absolute value be exceeded.) s

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